

BATTERY-OPERATED POWER SUPPLY

ABSTRACT OF THE DISCLOSURE

A power supply and switching technique is provided that utilizes a first battery and a second battery to charge a load. The power supply includes a first controlled power switch coupled to the first battery and the load, a second controlled power switch coupled to the second battery and the load, and a power controller coupled to the first controlled power switch, the second controlled power switch, and the load. The power controller monitors the voltage and the load and causes a charge to be applied to the load when the load voltage is not a predetermined voltage. The power controller causes a charge to be applied to the load by selectively closing the first controlled power switch, thereby providing a charge from the first battery to the load, and/or selectively closing the second controlled power switch, thereby providing a charge from the second battery to the load. A similar switching technique may be used to recharge the first and second battery by alternately coupling them to an external power source.

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